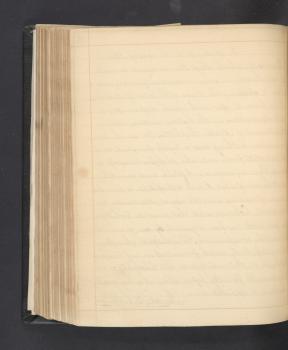
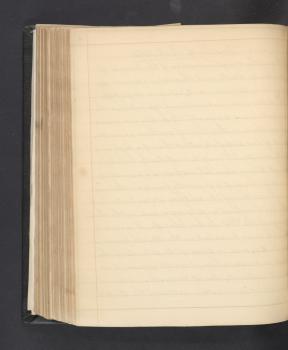
Paped March 23 1826 Inaugural Differtation Scute- Hepatitis. Baac L. Coffman A Pennsylvania.

Senter Cepatitis.

In obedience to the laws of this University, which oblige the candidate to write a deportation on some medical subject, prepara = tory to obtaining the degree of Doctor of Medicine, I beg leave to offer with much diffidence, a few observations on the history, nature, and treatment of Acute Hepatitis. On such an occasion, nothing new or highly finished, can be expected from one, who professes himself a mere byro in science. A plain and simple. statement of what I have collected in a limited course of reading, and the usual attendance on medical lectures, is all that must be looked for, as yet little has been acquired by me from observation on experience. Distrustful, therefore, of myself, I rely much for success in my present attempt, on the indulgence and liberality of the honourable faculty, before whom it is my good fortune to appear? Isaac. L. Coffman.



History of Hepatitis. Cepatities, or inflammation of the livery is oftwo kinds, acute and chronic. The former is violent in its nature and rapid in its progress. The latter more moderate, and less rapid, as their several names designate. Hepatitis is a disease of southern, rather than of northern climates; and of low and flat, rather than of a high and hilly country. It may be confidently looked for in all places, where bilious fiver is a prevailing malady; hence it is frequently found in the miss matic sections of the southern states; particularly the two Carolina's and Georgia, and in the whole range of the West India islands. It is said to be still more prevalent in the British provinces in India, and in some of the islands of the Indian ocean, where, it would appear, it is a real endernic, almost as much so, as the in termittent is, in certain sections of the United Mater.



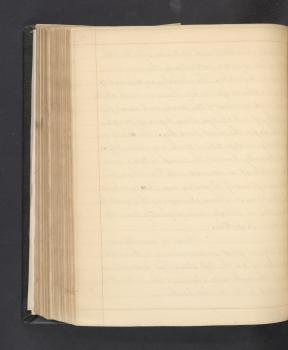
His an wel justly, and much to be duaded, thoughout the tropical regions of the whole world, especially if the country be marshy and low. Copalities is chiefly colopined to adula. Children, and those indeve the age of puberty, being life subject to it. It attacks fernales as well as males, and is particularly incidental to intemperate persons, and those who lead sed entary lives. A drunkard, it is said, in the short bone havely excapes Hopalitis.

Tymptoms.

whete Hepatitis is frequently preceded by an affection of the stomach. This however for the most part is a preconsiderable, as not to evide much uneasing to formal attack is ushered in by pain, and trusion, in the right hypochondrium, sometimes sharp, at other times dull, extending to

the right shoulder, and at times also, to the left. This is more particularly the case in chronic hepatitis. The clavicle, and point of the shoulder suffer most. Then succeed chills, boer, and increase of the pain, and most frequently, if not always, some degree of cough, which is, for the most part, dry . - the borols are querally constipated, at times very obstinately to. Occasionally, however, the reverse is true; and the complaint is attended with Dianhoea, and wen symptoms of Dysentery and Harmorrhaid al affections, sometimes accompany this malady. But this is perhaps more suguently true of Chronic- Hepatitis. There is usually an

There is usually an irrability, or great inconvenience offlienced from lying on the left side. This is conclined true of the right side also, and the patient is compelled to lie on his back.

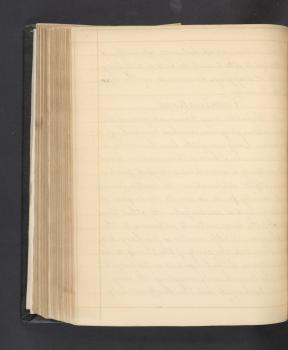


In these case, a wight, or drawing, is felt under an attempt to lie on the left side. —
Pulsure on the right hypochendriae region spector pain, and by a careful examination, an enlargement in that part become perceptible. The complaint is sometimes marked by a superabundant, at other times by a divininished secretion of bile.

The tongue is covered by a yellowich fur as it commonly is when the abdoninal sisters are disordered, and the urine is searty and high coloured. The pulse is full hard and frequent, from ninety to one hundred was a minute, and sometimes intermitting. Then the disease has continued for some days, the skin and eyes become tinged of a deep syllowing particularly when the inflammation is produced by calculi in the parenchyma of the liver.

If the patient sit up, but more especially, if he attempt to stand erect, he feels a distribing wight, or dragging, downwards, in the region of the liver. Termination! Acute Hepatitis may terminate in resolution, suppuration, gangrene, scinhus, hemonhagy, or Musion. Gaugiene of the liver however is a rare occurrence, I have seldow read, or heard fit; certainly I never have witnessed such a case .- After suppuration, the matter formed most usually finds its way, to the surface of the body, and is discharged. At other times

however, the liver contracts adhesions to the dapphragm, and the matter is discharged by alcoration, into the cavity of the thorap, or into the substance of the lungs, and is discharged from the bronchia by coughing. It may also be discharged into the duodenum, by



the biliary ducts. In some rare instances

the matter is discharged into the cavity of the statemen; in this case the disease terminates fatally, in consequence of the peritornal in flarmation thus excited.

Causes.

deale Hepalitis may reads from any thing producing strong initation in the liver, either duckly, or through the medium of sympather. In the latter mode, the disease appears to be most frequently produced. Of the cause per mentioned contrisions on the hepatic region from blows, falls inordinate preferrer, such as that arising from the too light lacing of badies stays of coverts; and wounds of the liver from cutting or piercing instruments, or by balls from five arms.

weite inflammation of the liver by sympathy, appear to be more numerous. They make their first impression on the stomach, or skin. -Of the latter kind are humidity, and sudden changes in the weather from a high, to a low temperature. Wearing wet clothes and sleeping between damp sheets, have oftentimes been productive of this complaint. So also has the taking of cold, by whatever means it may have been effected. Of the caused that act imme diately on the stomach, march miasmata, strong drink, and high seasoned food excels -wely and habitually indulged in, occupy the first place. - Any-thing taken into the Homach, which this organ cannot digest, may, by sympathy, produce hepatitis. Underthis head come mineral poisons of every description, which when swallowed, if they

a harding on Mearing and clother and the

so not kill, very frequently induce inflamma tion of the liver. Oxide of arsenic, and sulphate of copper, might here be particularly named. This when used in inordinate quantitles, gives origin to the same disease. Hence, professed frium eaters are said frequently to labour-under Supation affections. The bite of venomous serp ents, if it do not destroy life in a short time, oftentimes excites, as we are told, inflammation of the liver. He are better-prepared to admit the truth of this, from knowing, that a bomet ing of bile, which gives evidence of an undue initation of the liver, is one of the symptoms of the acute disease, arising from the bite of the rattle-snake, and other-poisonous serpents .-A yellowness of the skin, is also a concomita not of this affection . -I know, the opinion, that Hepatitis arises in any case from

umpathy with stomach, is held, by many, to be visionary and unfounded - but I notwith standing, believe it to be as well established, as any other-position in pathology. - None of the excuse producing producing what is denoning ated Sciopathic Hepatitis, can in their primary and immediate action, reach the liver. Ardent spirits, march miasmata, and luxurious food make their way into the stomach, but can not in their formal state, go any further .-In this state, therefore, they cannot enter the liver, nor is it possible for them to act primare -ly, where they do not formally exist; and as they do not exist in the liver, they cannot exert their immediate influence on that organ. get they produce Hopatitis. They must do it, therefore, by acting on the only organ to which they gain admittance - the stomach,

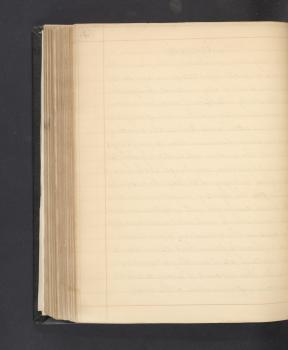
- the liver suffering indirectly, through

the medium of sympathy. Thy may not for liver sympathize with the stomach, as will as with the skin? With the skin it does umpathize, as all must acknowledge. No one will pretend to dery that cold produces bepa the but cold acts primarily only on the thin .-It action cannot reach the liver, or any other Jup seated organ, except through the medium flympathy. But from its proximity to, and more intimate connection with the stomach, to liver must be much more inclined to symp there with that organ, than with the skin; lunce, there can be no difficulty in establish ing Hepatitis, as a sympathetic disease, induced by an original impression on the Janach. Another cause of Hepatitis, may be found in the passions and affections the mind; such as grief melancholy, and despair, jealousy and revenge are said

to be productive of this, as well as of many other diseases .- These passions appear, also, to injure the liver by means of sympathy with the stomach; for they never seriously affect the former organ, until they have impaired the functions of the latter. The untimely dis appearance of cuticular emptions, is said to be productive of Hepatitis, a most remarkable instance of which is related by Dr. Armstrong where on the disappearance of Urticaria, the patient was immediately attacked by a viole not acute Hepatities .- Whenever the emption appeared again all the symptoms of Hepa titis disappeared, but so soon as the eruption was again repelled, they all returned with great violence demonstrating most incon testably that it depended on the repelled eruption. -

Diagnosis

At the very commencement of the disease, the pagnosis of acute-hepatitis from any contig wows part, is not of very material consequence, ince the speedy reduction of vascular action, by expious veriescetion, is the main spring to be acted on, in either case. But in the choice of burgatives, some discrimination is necessary; for though the modern scholastic physiologist, rematine physician, may laugh at the idea of cholagoques, hydragoques, 86 those who personally Hamine this the effects of purgative medicines in the forcal discharges, will entertain no doubt of the power which particular medicines pof up of causing the evacuation of particular fluids, apparently from their disposition to set on certain sets of secreting or excreting epels. On this account, it is very desirable to ascertain inflammation of the liver,



specially of its glandular structure, and dis tinguish it from that of surrounding organs. Acute Hepatitis, may be confounded with Preumonia, Gastritis, and spasm of the biliary ducts. From Pneumonia, it may be discumin -ated, by the pain in the side being, less acute, by that in the clavicle being more steady, by the difficulty of respiration being less, by the pain not being increased by a gradual inspe ration, as in pulmonic inflammation; by the cough being more day, and by the functions of the stomach being more deranged. -There is usually, also in inflammation of the abdominal viscera, a muddiness of the eye, and change of colour in the skin, which are not so apparent in inflammations of the thoracie viscera.

How inflammation of the domach, this disease may, in most in stances



16

Sistinguished by the absence of that gastrice witability and sensibility, which render gastrice is to daugerous and didusting a complaint. The fibrile symptoms, too, in Hopatitis, have whing of that low or typheid type, attending above inflammation.

Sente Hepatitis, may be discerned from spasm of the gall-ductory for being me mancea, by the pain being perma with by the pulle being one hundred and up wants in a minute, and by the patient always with posture; whereas the greatest sast, where we spasm on the gall-ducts, is obtained a bending the body forwards of passon of the sall-ducts, is obtained all-ducts, brought on by calculi, will terminate in, or pather occasion inflammation, when the treatment must be the same up original hepatitis.

Prognosis.

The farourable signed are, about the third, fifth, o wenth day, a bilious Diarrhoca; universal wa free perspirations, espious sectiment in the wine; inflammation appearing on an eftirm & part; howmarkoidal was; these being followed by an atolement of our of other symptoms.

(The unfavourable

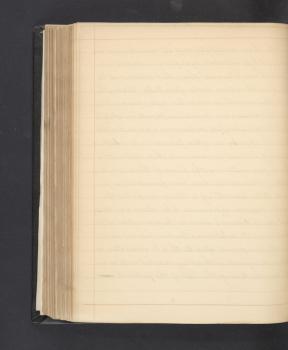
a justineity of pain and fever; the painbeing afined to a point; continual hiccough sold turnities, while other parts are extremely hot; thinale constitution; sword rigorogenic exceeded pansient flushes, and hectic fever; with the wal symptome of mortification.

Difsection.

n disection of those who die of Hepatilis, a liver is often found much enlarged and and to the touch, its colour is more of a deep

18.-

purple than natural, and its membranes are more or less affected by inflammation. Difsections likewise show that adhesions to the neighbouring parts often take place; that tubercles, as well as resicular cysts, (denominated hydatids,) are sometimes found in it; and that large abreefeed, containing a considerable quantity of put, are often found in its substance. Biliary calculi are now and then met with. In a few instances, the livers of those who have died of this disease have been found in a hutrid state, resembling a honey comb; but the most common appearance to be observed in those who die of diseased liver is the formation of tu -bercles in its substance. The liver has not unfrequently been found after death to be indurated, or otherwise injured, without any marked indication of disease during the life of the patient .-



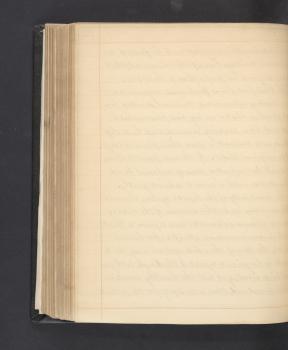
Treatment.

Acute Hepatitis calls for the autiphlogistic plan of treatment, vigorously pushed, and to a quat Hent. " In all very high deques of excitement in the system at large, or of inflammation of the liver itself, the biliary secretion is suspended, or very much impeded; and even when the function is restored, the fluid secreted is far from being healthy at the beginning. On this account, and to present chronic indusations, or the chance of present suppuration, it is always best to endeavour, to reinstate the biliary secretion as soon as possible. This is partly affected by powerful general and local bleeding, and by such medicines as at once act on the biliary organs, and on the whole line of the intestines, y "General blood-letting should be prompt and copious. From sixteen, to twenty ounces of blood have been taken with advantage from the army

wice, or even thrice a day. " If it were fair to how a conclusion from the facts which have were within my observation, says Dr. Armstrong, I should say, that it is a pretty general error smong, the practitioners of this country, to Heed too frequently in the course of inflamma toy affections, and yet without sufficient decis ion By drawing blood repeatedly, at long inter sals, with regard rather to some precise quan tity than to any immediate and particular year, the strength of the patient is too freque sitty of hausted, while the inflammation still socieds unimpeded to its fatal termination. If the efficacy of renesection does not depend in the quantity of blood drawn, but whom the Heet produced. How particularly applicable tuse remarks are to acute hepatitis, every one, wen the most inattentive observer of diseased thenomina must admit.

As in other diseases, however, the quantity of blood hown must be regulated by the circumstances of the case. To relieve the local pain, and unea sines cups, and luches, should also be freely ap blied to the region of the liver. The next remedy in point of efficacy is purging. Mercurial pur ges from their specific action on the liver are the proper ones ... With these, saline purges may be occasionally alternated; a strong infusion of anna holding glauber or epsom salts in solution, will be found an excellent cathastic. In the mean time, let perfect quiettede be enjoined, and all the drinks be bland and diluting; barley water, toast water, glax-seed tea, lumon ade, are suitable; and may be alternated with rach other, until the disease is perfectly subdued. Let every-thing heating be earefully avoided. If the pain should still continue, al though the fever is reduced, a large blister to

the hypochondriae region will be found an infortant remedy. I am fully convinced that Visters do good in proportion to their size. With this fact I was first made acquainted from having experienced the most decided ben get from a blister on my own person, which had not been properly secured, and had slip ped, so as to vesicate a space three times as large the original blister. If the case prove tedious, It small but repeated doses of calomel be ad ministered, with a view, to salivate gently. "The peculiarity of the hepatic system, causes the aflammatory and other diseases of the biliary rogan to assume a character and require a freatment, in some measure specific; for, however spidly the tone of the whole system may be re weed by large and repeated bleedings, both gen wal and local, yet, till the healthy secretion I bile be restored, there is no safety for the patient



bom present danger, or future suffering. " The relief, indeed, experienced in most cases, my Dr. Johnson, from mercury the moment it affects the mouth, is truly surprising. The remov al of all uneasy servations from the side, the clearing up of the skin and countenance, the ustoration of the natural evacuations, and, in short, the removal of every complaint but debil ity, evince the powers of this remedy, , Under such treatment duly persisted in the disease uldone fails to be brought to a favourable ter--mination; particularly if the constitution of the patient be sound. Tometimes however suppuration takes place, in spite of every effort to restrain it, and should the absects point ofternally, let it be opened and treated like similar affections seated on other parts of the system. The same treatment is requisite, if the aboce so discharge itself by the intestines, or lungs.

& soon as suppuration is known to be commence ing, we should omit using calonel with a view palivate, for we can rarely succeed, the two ac tions appear to be incompatible with each other and if by persevering we do at last succeed, the percubial irritation will only increase the exist ing one. It is here the Mitrie and muriatie seids, display their very best effect, given in small bus gradually mounted up to one or two traching taken in the twenty-four hours. I is particularly serviceable, in those eases atten the with great debility. This concludes the proper medical treatment of acute-hepatities, but much may be effected towards convalesance by a proper regulated diet. It should wither be stimulating, nor highly mutritions, putil the patient be somewhat advanced in

Hought to consist intively of regetable substand of milk. Erricie in the open is should be moderated and only taken in fair, and pleasant weather. Convolvence may be undered still more perfect by wearing flanded should new or be neglected.

And to sencelede with the vorde of the illustrious Dr. Hamilton, It will always be proper to counsel the valitie dinarian to foreste the haunts and habits of fashionable life; to guit the crowdedgety, alluving armusements, and various occupations carried on in airless, or even tainted romes, to shun luquirous tables, indolunce, and late hours; to retrace the steps by which he has from simple nature devialed, and court the country, page air and simple diet."

must now close this brief and imperfect efby rendered too prolip by the little interesting atter it contains, but previously to concluding, must express my warmefil thanks, in return for the instruction, and knowledges have gained, bon an attendance on your highly interesting, betures. That you may individually lorly live and contribute, by your useful laboury, suphold the reputation of the first medical whool in the new world, is the sincere wish Hone, who is now constrained to claim a here of that indulgence, and liberality, by Sich you have heretofore been character ized. Vinia.

